## **REMARKS**

## Restriction:

In the April 28, 2005 Office Action the Examiner required restriction to one of the following groups under 35 U.S.C. §121:

Group I:

Claims 1-57, 97-115, and 116-117, drawn to neutralizing antibodies and to a

method of making;

Group II:

Claims 58-79, and 118, drawn to a method of neutralizing botulinum

neurotoxin A (BoNT/A);

Group III:

Claims 80-96, drawn to polypeptides.

In addition, the Examiner required election of a species (sequence) from Tables 4, 9, or 11, and a single species (clone) from S25, C25, C39, 1C6, 1F3, 3D12, B4, huC25, Ar11, Ar2, WR1(V), WR1(T), 3-1, 3-8, 3-10, ING for initial examination.

In response to this restriction requirement, Applicants elect Group I, claims 1-57. 97-115, and 116-117.

With respect to the election of species, Applicant elect clone huC25 (SEQ ID NOS: 86 + 87 + 88 + 89 + 126 + 127 + 128 (VH) and SEQ ID NOS: 156 + 157 + 158 + 159 + 196 + 197 + 198 (VL)).

It is noted that the huC25 VH domain is a combination of SEQ ID NOS: 86-89 + 126-128, while the huC25 VL domain is a combination of SEQ ID NOS: 156-159 + 196-198.

With respect to the elected species, it is noted that claims 1, 3, 8, 17-57, 97, 99, 104, 113-117 read on the elected species.

## Sequence Compliance.

The Examiner alleged that at page 8, lines 12 and 14, sequences which contain more than 4 amino acids are set forth that do not evidence a sequence identifier (SEQ ID NO). <u>In the preliminary amendment filed on April 12, 2004 (accompanying the sequence listing), page 8, lines 12 and 14 were amended to provide sequence identifiers.</u>

The Examiner alleged that Table 4 sets forth a plurality of amino acid sequencwes which must have sequence identifiers assigned and inserted. In the preliminary amendment filed on April 12, 2004 (accompanying the sequence listing), a replacement Table 4 containing the required SEQ ID NOs was provided. For the purposes of clarity, however, a clearer replacement Table 4 is provided herewith.

The Examiner alleged that at page 85, Table 11, clone huC25 is missing three SEQ iD NOs. This row of Table 11 is carried over to page 86, where the SEQ ID Numbers are provided (see page 86, line 1).

The Examiner alleged that at page 86, Table 11, clone huC25 is missing four SEQ iD NOs. This row of Table 11 is carred over to page 87, where the SEQ ID Numbers are provided (see page 87, line 1).

In view of the foregoing, Applicants believe the application is in compliance with the sequence listing rules.

If a telephone conference would expedite prosecution of this application, the Examiner is invited to telephone the undersigned at (510) 769-3513.

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Table 4. Deduced protein sequences of VH and VL of BoNT/A Hc binding scFv classified by epitope recognized.

Epit         Clone           ope         1         C15           1         C29         C9           ID5         C1         C1           S25         S25	1	Lib Framework 3 CDR3	Framework 4  Framework 4  MIHPSNSEIRFNQKFED	· ij
			MIHPSNSEIRFNQKFED	ij.
	-		MIHPSNSEIRFNQKFED	9
	-		MIHPSNSEIRFNQKFED	2
C9 ID5 C1 S25	1	1 QVJLQQSGAELVRPGASVKLSCKTSGYSFT SYMMN WVKQGPGQGLEWIG MIH MATLTVDKSSSTAYMOLSSPTSEDSAVYYCAR GIYYDYGGNYYAMDY	AMDY WGOGTTVTASS	48
C1 C1 S25	Н			49
C1 S25	2	2 EVE	T-LK- -TLL-V	20
S25	Н		DT	51
	н		WYF-VV	52
1B6	7	2QVIAT-I D-A-HS-AKS KNE-ARLDI RGKG	V-SSYYGDTDYI-KG	53
109	2	2 E-Q-KVIAT-I D-AVHSHAKS KNE-PRLI RGKG	V-STYYGDTDY-PK-KG	54
158	2	2Q-KVIAT-I D-AWIR-FKKN- RISI-R-T-KNQFFLN-V-TTGTYD	Y-S YSGSTGYNPSLKS	55
167	7	2Q-KVKNOFFLN-V-T-TGTYD	Y-S YSGSTGYNPSLKS	26
2 1A1	7	2 EVKLVESGGGLVQPGGSRKLSCATSGFTFS DYYMS WIRQSPDKRLEWVA RFTISRDNAKNTLYLQMSSLKSEDTAMYYCVR HGYGNYPSH	TISDGGTYTYYPDSVKG WYFDV WGAGTTVTVSS	57
1F1	72	2	SN-SSM	28
. 039	1	1 Q-Q-QS-KLAVT-E -VN YR-DEGK		59
C25	٦	1 Q-Q-QKLAY -VT-E	S	09
265	2	2KLA S-AVT-E HNHA- NLPYDHV	N-L	61
3C3	7	2K	T-N -YQS	62
3F4	7	2 EGKL	FT-N	63
344	2	2	FT-N	64
3 1B3	. 2	2 EVQLQESGGGBVVQPGRSLRLSCAASGFTF SYAMH WVRQAPGKGLEWVA	VISYDGSNKYYADSVKG	65
106	2			99
286	2	2 VKLVESGP-L-KPSQSLSLTCTVTGYSIT- D-AWN -IFNKMG -ISITTQFF-KLVTST AGDGY-VD	Y-NN-NP -L-N WYFDVT	67

68	69	7.0	71		72	73	74	75	16	77	78	79	80	81	82	83	84	85	86	87	88	
IG	KA-LTV-T-SS-A-M-LSTSS ELGD D-YP-SGSTNYNEKF-S ELGD	EVQLQQSGAELVKPGASVKLSCKASGYTFT SFWMH WVKQRPGRGLEWIG RLDPNSGETKYNEKFKS KATLTVDKPSSTAYMELSSLTSEDSAVYYCAR EAYGYWN FDV WGTGTTVTVSS	K	Framework 1 CDR1 Framework 2 CDR2 CDR2 CDR3 Framework 4	DIELTQSPAIMSASPGEKVIMTC SASS SVSHMY WYQQKPGSSPRLLIY DTSNLAS GVPIRFSGSGGTSYSLTISRMEAEDSATYYC QQWSSYPFT FGSGTKLELKR	一五五	AIS I-S-NLHSETSPKPW G V		L-AIIVS I-S-NLHS-TKPW G VSAAI	SLAV-L-QRA-IS- RA-ESVDSYGN-F-HQP-K RAE- -I-AR-DFTINPVD-VSNED-PA	SLAV-L-QRA-IS- RA-ESVDSYGN-F-HQP-K RAE- -I-AR-DFTNPVD-VSNED-YGI	S	S-TKRWK	DIELTQSPASLAVSLGQRATISC RASESVDSYGNSFWH WYQQKPGQPPKLLTY LASNLES GVPARFSGSGSRTDFTLTIDFVEADDAATYYC QQNNEDPYT FGGGTKLEIKR				IMSA-P-EKVTTT- SS SV-YFTS-K-W STA- G-SYSSRMERSSYDQAGN-S	IMSA-P-EKVTTTHQ -FTS-K-W STA- 	-TIMSA-P-EKVTMT- SS SV-Y-YSS-R DTA- VG-SYSSRMEWSSY-P-	IMSA-P-EKVTMTS VSS-YLSS-R DTA- VG-SYSSRMEWSSY-P	
2	7	7	2		г	П	7		Н	7	2	2	7	2	7	П	П	7	2	2	7	$\dashv$
165	146	1F3	2E8	$V_L$ Region	2C15	60	105	CI	S25	1B6	109	1E8	167	1A1	1F1	623	C25	2G5	3C3	3F4	3H4	
		4		V <sub>L</sub> R	н									2								

m	1B3	2	DSELTQSPTTMAASPGEKITTTC SASSS ISSNYLH WYQQRPGFSPKLLIY RTSNLAS	89
			GVPARFSGSGSGTSYSLTIGTMEAEDVATYYC QQGSSIPRT FGGGTKLEIKR	
	106	2	-IASL-V-L-RRAS- RE-VEYYGTSLMQK-QP AAVE-	90
			DFN=HPV-E -I-M-FSRKV-W-	
	2B6	2	YIASL-V-L-QRAS- RE-VDSYGNSFMKQP LAE-	91
			R-DFTDFVD-A	
	165	2	-IASL-V-L-QRAS- RE-VEYYGTSLMQKQP AAVE-	92
			$-\mathtt{A}\mathtt{DF}\mathtt{N}+\mathtt{HPV}-\mathtt{ED}-\mathtt{I}-\mathtt{M}-\mathtt{F}- \qquad -\mathtt{SRKV}-\mathtt{Y}-$	
	146	7	-IAI-SVVSNKS-TW G	93
			VSSAWY-LAV-LR-	
4	1F3	7	DIELTQSPASMSASPGEKVTMTC RATSS VSSSYLH WYQQKSGASPKLWIY SASNLAS	94
			GVPSRFSGSGSGTSYSLTISSVEAEDAATYYC QQYIGYPYT FGGGTKLEIKR	
	2E8	2	TT-AI-I S-S IG-NP-FL RT	95
			A	